

D-series

for single phase alternating current, 6 pole

RM500D-6E



Description

Motor technology: AC
Rated voltage U_N : 1~ 230 V $\pm$ 10 %*
Rated frequency f_N : 50 Hz*
Motor input power P_1 : 0.43 kW*
Rated current I_N : 1.95 A*
Rated speed n_N : 850 min⁻¹*
Starting current I_A : 6.00 A
Service capacitor C_{400V} : 8.0 μ F
Thermal class: THCL155*
Min. permitted ambient temperature $t_{R(min)}$: -25 °C
Protection class: IP54
Motor protection: Thermal contact
Impeller : Aluminium, uncoated
Motor: 1 coat paint, pebble grey
Conformity: ErP 2013, CE

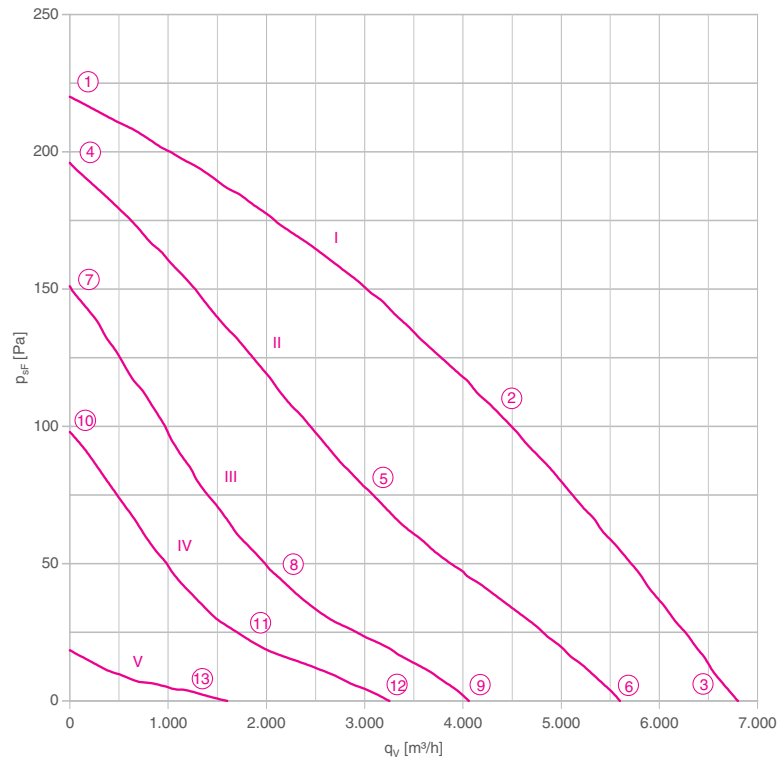
ErP-data

Efficiency η_{statA} : 31.9 %
Efficiency: $N_{actual} = 47.0 / N_{target} = 47$ **

* Rated data

**ErP 2013

Characteristic curve

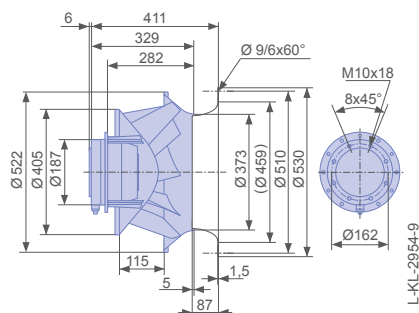


Measured with inlet ring, without guard grille according to ISO 5801

- Inlet ring 00278489 Page 264
- Connection diagram 1360-104XA SW Page 367
- System components Page 262

Dimensions [mm]

Free running motorised impeller RM
in installation position H, Vu, Vo

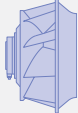


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Motor input power	Speed	Suction side sound power level
		U [V]		I [A]	P ₁ [W]	n [min ⁻¹]	L _{WA5} [dB]
RM50D-6EK.6C.1R	I	230	①	1.30	290	930	
		230*	②	1.95*	430*	850*	68
		230	③	1.75	390	890	75
	II	160	④	1.30	220	870	
		160	⑤	1.95	310	670	62
		160	⑥	1.80	290	740	70
	III	130	⑦	1.40	180	760	
		130	⑧	1.85	220	490	52
		130	⑨	1.75	220	550	62
	IV	105	⑩	1.40	140	590	
		105	⑪	1.55	150	380	45
		105	⑫	1.50	145	420	54
	V	60	⑬	0.89	47	180	

*rated data

Fan ordering information

Design	RM
Installation position	H/Vu/Vo
Electrical connection	Supply cable lateral 85cm
	
Type	RM50D-6EK.6C.1R
Article no.	106033
Weight [kg]	14.00
* Inlet ring not included	

Control technology

Frequency inverter Fcontrol 1~  Page 296	Motor protection units 1~  Page 344	Transformer-based controllers 1~  Page 334	Electronic voltage controllers 1~  Page 310
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